Quantity that 100 cubic inches of air will take up.

Temp.	Cubic inches.			Temp.	Cubic inches.				
80°			. 9	750	•	•	•		
55			. 11	80			•	36	
ti O			. 14	185				44	
65			. 19	90	•	•		55	
20			. 24						

The quantity of this vapour in the air tho patient inhaled at ordinary temperatures was only about a quarter as much by measure as there would be of ether, -being, however, nearly twice as heavy; there was nearly half as much by weight. Now, on account of the soull space it occupied, it only excluded the air to a quarter the amount that ether-vapour did, and therefore interfered but little with the natural process of respiration; the patient, indeed, could take in nearly tho usual amount of oxygen without quickening or enlarging the respiratory movements. It was to be observed that temperature exerted a great infinence over the quantity of this vapour that air would take up, and thus nu elevation of little more than fifteen degrees in the warmth of the apartment would double the amount of it which the patient would inhale in a given time, if no means were taken to regulate the evaporation. Dr. Simpson recommended the chloroform to be inhaled from a spongo or handkerehief, and this simple means was efficient; but he (Dr. Snow) preferred to uso an apparatus, as, without it, more of the vapour was blown away by the warm breath of the patient then was inhaled. The strength of the vapour could not be regulated; it could not even be known when it was all expended, and no exact observations could be collected. The chloroform was of ensier application than ether, on account of its quicker action; but for the samo

reason, greater care was required in its use to avoid accident.

Dr. F. Bird said that he had seen the enforcement administered that day in two operations, by Mr. Philips, at the Westminster Hospital; it was perfectly successful, and the patients recovered their consciousness very quickly.—Lancet, Nov. 27,

1847.

68. Operations performed at St. Bartholanew's Hospital, upon Patients rendered insensible to Pain, by the Inhalation of Chlaroform.—Holmes Choote, Esq., reports (Lincet, Nov. 27, 1847) three operations performed by Mr. Lawrence, on patients under the influoneo of chloroform,—two, lithotomy by the lateral operation, and the third, extirpation of a tumour from the breast. These cases, Mr. Croote says, confirm the favourable report given by Prof. Simpson, of the effects of this agent.

firm the favourable report given by Prof. Simpson, of the effects of this agent.

"These three patients," Mr. Croote states, "did not experience the smallest inconvenience from the inhalation into the lungs: the condition into which they were thrown—differing from the state of stuper, which commonly ensues after the inhalation of ether—bore the closest resemblance to prefound sleep; they recovered quickly, the smell was speedily gone, and the cases are now going on

most favourably.

"Without wishing in any way to detract from the very great merit of Professor Simpson, in introducing this valuable agent, I may observe that for some considerable time Mr. Lawrence has used, in private practice, the chloric ether, which is chloroform in spirit and water. Patients with irritable lungs, who could not tolerate the violent paroxysms of coughing induced by the sulphuric ether, readily inhaled the chloric ether, the laste and smell of which are similar to those of chloroform; the ancesthetic offect was more gently induced, and there were fower complaints, on recovery, of serences of the chest, headache, &c. The less irritating offect of the chloric other was noticed by Mr. Taylor, and by mysolf, in some experiments (reported in this journal) performed upon animals; their efforts to escape were most violent, when immersed in the vapour of sulphuric ether.

"One of the students of the hospital, who in the early part of the year was anxious to have some painful stumps of teeth removed from the jaw, kinily consented to take the ethers upon two different occasions, and to report the result. It described the taste of the chloric ether as much more agreeable than that of the sulphnic; the effect upon the lungs as less irritating and oppressive; but he thought that the state of unconsciousness was not equally complete. Mr. Lawrence

has, however, performed many most severe operations upon patients rendered perfectly insensible to pain by the inhalation of the chloric ether, and he is now

in the habit of directing its administration.

"The advantages which the ehloroform appears to possess are so numerous and important, that if the results of subsequent trials are equally successful with those here recorded, there is little doubt of its superseding all other known anesthetie agonts. Some modification in the modo of its administration many bo requisite, since, as I am informed by Mr. Mitchell Henry, one of the honse-surgeons, the lips of two of the patients have been vesicated by the application of the sponge.

[Operations have also been performed, upon patients under the influence of ehleroform, by Messrs, Liston, Fergusson, Asion Key, Hancock, Walton and other surgeons in London, and in Paris, by MM. Blandin, Roux, Vidal, and Annasat. The results obtained, are said to be confirmatory of the statements made by Prof. Simpson.

69. Chloroform in Midwifery Practice .- Dr. PROTHEROE SMITH, in a paper in the Lancet, (Nov. 27, 1847,) related the following case of labour in which he em-

ployed it.

"A lady, aged thirty-seven, of a highly nervous temperament; has been married fourteen years; had, in the first ten years after her marriage, four malo and three female children, besides a miscarriago. During the last six years she has oceasionally suffered from bearing down and other symptoms of uterino distress, which were always aggravated by walking, especially so during pregnancy. Menstruation has been somewhat irregular and often scanty. She continued in good health till the ovening of the 17th, whon sho had a suddon and severo pain in the left hypogastrium; sho described the sensation as giving her the idea of something

being torn from the womb.

"At twenty minutes past three o'clock A.M., on the 18th, a sudden gush of blood and some water occurred, and was followed by slight pains; at eight o'clock those recurred more or less severely about every quarter of an hour or twenty minutes, but remitted towards night. Examination per vaginam at this time discovered the os uteri high up and dilated to about the size of a sixpeneo; the head presented in the first position; the margin of the os uteri was very unevon and irregularly hard, feeling as though some beads were imbedded in its tissue. The pains became more regular in the evening of the 18th, recurring about every quarter of an hour, but ngain diminishing in both strength and frequency as night advanced. Towards the morning of the 19th, they became more persistent and eamo on every quarter of an hour till the evening, when the patient appeared rather exhausted. At this time the head was still above the brim of the pelvis; the os about the size of a shilling, and its edges presenting the peculiarity before mentioned. There had been occasional discharges of blood and liquor amnii. I could not detect any presentation of the placenta. The patient was ordered twenty five minims of the sedative liquor of opium, which procured her a good night's rest.

"The pains eame on again at seven A.M. of the 20th, and continued without interruption about every seven minutes. The os dilated very slowly, leaving the bead-like structure more distinct from the recossion of the intermediate tissuo. About four P. M., notwithstanding the pains were powerful, the os, which was dilated nearly to the size of an orange, yielded but slowly. I ordered a plentiful injection of hot water per vaginam, soon after which the os diluted more readily, though the anterior lip becamo edematous, and was pressed between the head

and os pubis,

"At this period of the case, the patient became very urgent for relief, and, with the consent of herself and friends, I began to administer the chloroform, during the terror of a severe pain. The countenance, which before had expressed severe suffering and intense anxiety, immediately relaxed into a placid smile, and in a few inspirations, the patient appeared in a profound sleep, when the inhalation was suspended, but renewed on the recurrence of each uterino effort. The contractions came on at the same intervals as before the inhalation. The os now yielded rapidly, and the membranes which protruded at the os externum